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APPENDIX A PRESENTLY PENDING CLAIMS

- 14. (New) A process for the cryo-preservation of a primary explant comprising the step of cryofreezing the primary explant, wherein the primary explant comprises a plant tissue that has been subjected to an induction medium for a time sufficient to induce a primary regenerating tissue, but not a somatic embryo.
- 15. (New) The process of claim 14, further comprising a two step incubation of the primary explant, wherein the primary explant is first incubated in a medium containing 0.4 M sucrose followed by incubating the primary explant in a medium containing 1 M sucrose.
- 16. (New) The process of claim 14, further comprising the step of dehydrating the primary explant prior to cryofreezing.
- 17. (New) The process of claim 16, wherein the dehydration step involves placing the primary explant in an air current of a laminar flow cabinet, in a stream of compressed air, or in an airtight container together with silica gel or various over-staurated salt solutions to control the relative humidity.
- 18. (New) The process of claim 14, further comprising the step of pre-freezing the primary explant prior to cryofreezing.
- 19. (New) The process of claim 18, wherein the pre-freezing temperature is between 20°C and -40°C.
- 20. (New) The process of claim 14, wherein the plant tissue utilized is derived from a cocoa, coffee, or carrot plant.
- 21. (New) The process of claim 20, wherein the plant tissue utilized is derived from Coffea canephora or Coffea arabica.
- 22. (New) The process of claim 20, wherein the plant tissue utilized is derived from *Theobroma cacao*.

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- 23. (New) The process of claim 20, wherein the plant tissue utilized is derived from *Daucus carota*.
- 24. (New) A process for the cryo-preservation of a primary explant comprising the steps of:

incubating a planting tissue in a regeneration medium for a time sufficient to induce a primary explant, but not a somatic embryo;

dehydrating the primary explant to a water content of at least 28 g/100g dwt; prefreezing the primary explant to a temperature between -20°C and -40°C; and cryofreezing the primary explant.

- 25. (New) The process of claim 24, further comprising a two step incubation of the primary explant, wherein the primary explant is first incubated in a medium containing 0.4 M sucrose followed by incubating the primary explant in a medium containing 1 M sucrose.
- 26. (New) The process of claim 24, wherein the dehydration step involves placing the primary explant in an air current of a laminar flow cabinet, in a stream of compressed air, or in an airtight container together with silica gel or various over-staurated salt solutions to control the relative humidity.
- 27. (New) The process of claim 24, wherein the plant tissue utilized is derived from a cocoa, coffee, or carrot plant.
- 28. (New) The process of claim 24, wherein the plant tissue utilized is derived from *Coffea canephora or Coffea arabica*.
- 29. (New) The process of claim 24, wherein the plant tissue utilized is derived from *Theobroma cacao*.
- 30. (New) The process of claim 24, wherein the plant tissue utilized is derived from *Daucus carota*.

• 31. (New) A process for the cryo-preservation of a primary explant comprising the steps of:

incubating a planting tissue in a regeneration medium for a time sufficient to induce a primary explant, but not a somatic embryo; and cryofreezing the primary explant.

- 32. (New) The process of claim 31, further comprising the step of dehydrating the primary explant to a water content of at least 28 g/100g dwt.
- 33. (New) The process of claim 31, further comprising the step of prefreezing the primary explant to a temperature between -20°C and -40°C.